

Item	Author	Affiliation	Topic-Concept	Disposition	Transfer To:
1	John Stevens	Lockheed Martin Corp	A key objective of the lunar missions is to serve as a testbed for the Mars missions, but the Mars exploration approach has not yet been defined. Fundamental to all previous studies of the Mars missions is a reliance on robots to precede, augment, and supplement the human missions, and yet these robotic adjuncts are essentially missing from the current spiral definition of lunar missions. We recommend that an integrated roadmap be developed that links the robotic and human lunar missions, and directly ties these into the robotic and human Mars missions.	Author should brief the committee	n/a
2	D. Broniatowski, C.Mahler, S.Podhajsky	International Space University	The LunAres Project at the 2004 ISU Summer Session Program identified the enabling elements for an initial human mission to Mars and selected those that can best be rehearsed in the context of near-term international human and robotic lunar missions. This list of enabling elements was used to suggest a set of lunar missions in preparation for an eventual human mission to Mars.	Author should brief the committee	n/a
3	D. Broniatowski, C.Mahler, S.Podhajsky	International Space University	The LunAres Project at the 2004 ISU Summer Session Program , identified the enabling elements for an initial human mission to Mars and selected those that can best be rehearsed in the context of near-term international human lunar missions. During long-duration human missions to the Moon many of the identified elements can be tested on the lunar surface.	Author should brief the committee	n/a
4	n/a	Boeing	Recommendations for Lunar Roadmap Development	Author should brief the committee	n/a
5	Klaus P. Heiss	High Frontier Inc	First Human Presence at the South Pole of the Moon "Jamestown Base"	Committee should read the paper	n/a
6	n/a	Trans Orbital	Resource Sharing as a Cost-Saving Measure for Interplanetary Communication and Navigation Systems	Committee should read the paper	n/a
7	Dr. Stewart Moses	Northrop Grumman	Returned Value Model for Human and Robotic Exploration of Earth and Mars	Committee should read the paper	n/a
8	David Dietler, Peterkokh, Charles Radley, Thomas L. Billings, Robert McGown, Cheryl Lynn York, Bryce Walde, Thomas Hanna	n/a	Finding Iron, Nickel, Platinum Group Metals and other Siderophile Elements on the Moon. Siderophile platinum-group metals (PGM) and iron-nickel (Fe-Ni) deposits are worth looking for on the Moon. They would be useful in lunar construction and industry, significantly improve selfsufficiency and reduce the trade deficit of lunar settlements, and help support and sustain human presence throughout the solar system. Although studies indicate terrestrial PGM reserves are sufficient for the next 50 years, partly due to recycling, they are so rare and high-priced that lunar PGMs may be a profitable lunar export.	Committee should read the paper	n/a
9	Ed Luczak	Computer Sciences Corp, BHP Billiton University of Wisconsin, Interlune-Internars Initiative Inc	Development of Technologies to Support Resource Delineation and Recovery. NASA and the mining industry have a mutual interest in developing advanced technologies for subsurface exploration and resource exploitation. Strategic partnerships between NASA, leading mining companies, technology suppliers and research organizations should be created to develop a joint capability for mutual benefit	Committee should read the paper	n/a
10	Francis X. Kane	The Schriever Institute	Enabling Infrastructure for Space Exploration. We suggest that the first steps in the United States space exploration program should be to put in place the necessary lunar and Martian infrastructure to enable exploration and exploitation for government, commercial, international and private interests.	Committee should read the paper	n/a
11	D. Broniatowski, C. Mahler, S. Podhajsky	Universities Space Research Association	Medical and psychological issues are of highest priority to enable human missions to the Moon and Mars, therefore the LunAres Project at the 2004 ISU Summer Session Program , identified medical and psychological challenges of long duration Mars missions. This paper summarizes those that can be best tested on the Moon as it offers the best location to research, develop and validate medical infrastructures and strategies that will be affected by reduced surface gravity	Committee should read the paper	n/a
12	Trygve C. Magelssen "Spike"	n/a	Strategy Lunar Base Mission Scenario	Committee should read the paper	n/a
13	Karen Cramer Shea	n/a	De Facto Property rights under the Outer Space Treaty	Committee should read the paper	n/a
14	n/a	Constellation Services International	This paper discusses ways of duplicating the successes of Apollo and ISS in generating program sustainability while avoiding the failure of Shuttle cuts which traded near term sustainability for long term utility, and ultimately long term sustainability.	Committee should read the paper	n/a
15	n/a	Emergent Space Tech	Strategic Concepts Response	Not relevant to subject	n/a
16	Talso Chui, David Goodstein, David Lee,John Reppy	JPL, California Institute of Tech and Cornell University	Lunar Habitat Explorer Mission Concept	Not relevant to subject	n/a
17	Aaron Mills	Kennedy Space Center	The Use of the Moon and a Testbed for Mars Exploration	Not relevant to subject	n/a
18	Karen Cramer Shea	n/a	Moon and Mars	Not relevant to subject	n/a
19	Dr. Azhar Rafiq,Dr. Ronald Merrell	Virginia Commonwealth	Human Health and Human Support for Exploration Missions	Not relevant to subject	n/a
20	Charles F Radley	Tran orbital Corporation	Robotic and Human Lunar Expeditions and Sustained long-term robotic and Human Exploration of Mars	Not relevant to subject	n/a
21	n/a	Eagle Averro	On Wind and A Prayer	Not relevant to subject	n/a
22	Michael Sims, Geoffrey Briggs	Ames Research Center	Government Stimulation of Space Entrepreneurialism	Not relevant to subject	n/a
23	Adriano Autino	n/a	An Alternative Agenda for Space Agencies	Not relevant to subject	n/a
24	Lynn D. Harper	Ames Research Center	Developing a University or Extension Campus on the Moon	Refer to other committee or panel	Education Roadmap
25	C.Y. Cheung, S.A. Curtis, N. Shur, K. Lee	Goddard	Robotic and Human Lunar Expeditions& Long Term Robotic and Human Exploration of Mars	Refer to other committee or panel	Capabilities Roadmaps
26	Clifford C. Meinhardt	United Space Alliance	Integrated Crew Interface for Crew Centered Operations for Robotic and Human Lunar Expeditions	Refer to other committee or panel	HR&T
27	Jeff Plescia	John Hopkins	Robotic Exploration of the Moon Cratering Flux History of the Earth-Moon Environment and Lunar Thermal History	Refer to other committee or panel	LEAG
28	Jeff Plescia	John Hopkins	Robotic and human Lunar Expeditions	Refer to other committee or panel	LEAG
29	Patrick Coronado, Dr. Edie Sears	GSFC	Advanced Telescope Searched for Earth-like planets and Habitable Environments (Atonomous Explorers Vai Sensor-Web Data Fusion)	Refer to other committee or panel	HR&T
30	n/a		A Deployable Communication Tower (DCT) for Implementing Wireless Local Area Networks to Support Moon and Mars Habitation and Exploration Missions	Refer to other committee or panel	HR&T
31	Gerald E. Miller	United Space Alliance	EVA Operations Technology	Refer to other committee or panel	LEAG
32	Lawrence C. Freudingner	Dryden	Conduction Robotic and human Exploration of Moon and Mars Focus Areas 1&2	Refer to other committee or panel	LEAG
33	Karen Cramer Shea	n/a	Finding Lunar Lava Tubes	Refer to other committee or panel	LEAG
34	Dr. Jay Garland	Dynamic Corp	Gen-One Bioregenerative System Development and Testing to Support Lunar Habitation	Refer to other committee or panel	HR&T
35	S.A. Curtis, J.E. dorband, D. J. Lary, J.J Lemoigne, J.L. Rilee	Goddard, University of Maryland,L-3 Communications,GSI	High Performance Computing and Exploration Initiative Robotics Development	Refer to other committee or panel	HR&T
36	Russell L. Kerschmann, Lynn D. Harper	Ames Research Center	Biology Beyond the Planed of Origin	Refer to other committee or panel	LEAG
37	Thomas L. Billings, Cheryl Lynn York, Robert McGown, Bryce Walden,Charles F. Radley, Thomas C Hanna, R.D. Frederick	Oregon L5 Society	Lavatube Search, Exploration, Utilization and Science	Refer to other committee or panel	LEAG
38	n/a	Honeywell International	Robotic and Human Lunar Expeditions	Refer to other committee or panel	HR&T
39	John Strickland	n/a	A Flexible Design Concept for a Re-Usable lunar Ferry	Refer to other committee or panel	HR&T
40	Mark Lupisella, Daniel Glavin, Jason Dworkin, Brent Bos, Chris McKay, Margaret Race	Goddard/Ames	How the Moon can Inform Human Mars Mission Contamination Management	Refer to other committee or panel	LEAG
41	Yuichi Motai Ph.D.	n/a	Advanced Visual Interactions for Human Robotic Collaborative Systems	Refer to other committee or panel	HR&T
42	Tihamer T. Toth-Fejel	n/a	Rewriting the NASA Vision and Mission Statements	Refer to other committee or panel	APIO
43	Charles F Radley	Tran orbital Corporation	Robotic and Human lunar Expeditions, High resolution Lunar Polar Imagry	Refer to other committee or panel	LEAG
44	Regan Howard	Orbital	Lost Cost Mission Strategies for robotic Lunar Expeditions and Robotic	Refer to other committee or panel	HR&T
45	Karen Cramer Shea	n/a	Outreach Strategy Feedback	Refer to other committee or panel	APIO
46	Russell Kerschmann, Lynn D.Harper	Ames Research Center	Toxicity of planetary Surface Particulates	Refer to other committee or panel	Code-U
47	J.Cuzzi, S.Davis, D. Hollenbach, D.Wooden	n/a	Coupled Physical/Chemical Evolution of Protoplanetary and Protosatellite nebulae	Refer to other committee or panel	LEAG
48	n/a	n/a	High Data Rate Packet Switched Relay Communication satellite to Support Mission to the Moon and Mars	Refer to other committee or panel	HR&T
49	William H. Davis, Todd Borghesani	US Army	Game Technology Applied to Education in NASA strategic Roadmap Focus Area	Refer to other committee or panel	Education Roadmap
50	Anthony Taylor	Irvin Aerospace	Robotic Access to Planetary Surfaces Committee	Refer to other committee or panel	HR&T, JPL
51	J.W. Keller, F.Herrero, J Trombka	Goddard	Advanced Sensor Development for the location and Acquisition of Planetary Resources	Refer to other committee or panel	LEAG
52	Richard Fork, Dane Phillips, Wesley W.Walker, Spencer T. Cole, Rustin I. Laycock, Sean D. Moultrie	University of Alabama	Robotic and human lunar Exploration using Coherent Optical Solar Power	Refer to other committee or panel	HR&T
53	Jacqueline Le Moigne, Patrick Coronado	Goddard	Robotic and human Lunar Expeditions Sustained Long term Robotic and human Exploration of Mars& Robotic Exploration Across the Solar System	Refer to other committee or panel	HR&T
54	Joseph Lazio& Richard Bradley	NRL/NRAO	A Lunar Based Radio Astronomy Observatory	Refer to other committee or panel	LEAG
55	George Ricker & Peter Ford	Massachusetts Institute of Technology	Robotic and Human lunar Expedition, Sustained long term Robotic and human Exploration of Mars	Refer to other committee or panel	LEAG
56	J.A. hoffman, J.N. Hewitt & B. F. Burke	Massachusetts Institute of Technology	Lunar Surface for Astronomical Observatories	Refer to other committee or panel	LEAG
57	David Adlis	The Aerospace Corp	The Human Side of Robotics	Refer to other committee or panel	HR&T
58	n/a	SHOT	Ecopoiesis biology Surface Demonstration	REMOVED: (Was marked Proprietary)	n/a